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WHAT IS CLAIMED IS:

1	1. A method for determining a genotype associated with increased or
2	decreased resistance to familial bipolar affective disorder in a family affected by bipolar
3	affective disorder, comprising:
4	determining the genotype of at least one family member, wherein the
5	genotype is determined with at least one marker for at least one chromosomal region linked
5 6 6 7 7 8 9 9	to a locus associated with resistance to bipolar affective disorder, wherein the chromosomal
117	regions are inclusive of and localized between D4S402 and D4S424; inclusive of and
8	localized between D4S431 and D4S404; or inclusive and localized between D11S394 and
9	D11S29;
	determining, after the age of onset, the bipolar affective disorder disease
10 11 12 13	status in the family member;
12	comparing the genotype with the bipolar affective disorder disease
13	status; and
14	determining therefrom the genotype associated with increased or
15	decreased resistance to bipolar affective disorder.
1	2. The method of claim 1, wherein the genotype is determined with
2	markers for at least two of the chromosomal regions.
1	3. The method of claim 2, wherein the genotype is determined with
2	markers for three of the chromosomal regions.
1	4. The method of claim 1, wherein the chromosomal region is inclusive of
2	and localized between markers D4S422 and D4S1625.

The method of claim 4, wherein the marker is D4S175, D4S422,

2 D4S1576, D4S2294, D4S1579, D4S397, D4S3089, D4S2965, D4S192, D4S420, D4S1644,

3 D4S3334, or combinations thereof.

l	6. The method of claim 1, wherein the chromosomal region is inclusive of	
2	and localized between markers D4S3007 and D4S419.	
1	7. The method of claim 6, wherein the marker is D4S3007, D4S394,	
2	$D4S2983$, $D4S2923$, $D4S615$, $AFM_{\alpha}184za9$, $D4S2928$, $D4S1065$, $D4S1582$, $D4S107$,	
3	D4S3009, D4S2906, D4S2949, AFM087zg5, D4S2944, D4S403, D4S2942, D4S2984,	
4	D4S1602, D4S1511, D4S2311, D4S3048, or combinations thereof.	
C) 131	8. The method of claim 7, wherein the marker is D4S3009, D4S2906,	
2	D4S2949, AFM087zg5, D4S2944, D4S403, D4S2942, D4S2984, D4S1602, D4S1511,	
2 -3 -11 -12	D4S2311, or combinations thereof.	
<u> </u>	9. The method of claim 1, wherein the chromosomal region is inclusive of	
_2	and localized between markers D11S133 and D11S29.	
1	10. The method of claim 9, wherein the marker is D11S133, D11S147,	
2	CD3D, D11S285, D11S29, or combinations thereof.	
1	11. The method of claim 1, wherein the genotype at a single chromosomal	
2	region is determined with at least three markers.	
1	12. The method of claim 1, wherein the marker is for a restriction fragment	
2	length polymorphism or microsatellite polymorphism.	
۷	length polymorphism of interesatemic polymorphism.	
1	13. A kit for determining a genotype associated with increased or decreased	
2	resistance to familial bipolar affective disorder, wherein the kit comprises markers for two or	
3	more of the chromosomal regions:	
4	inclusive of and localized between D4S402 and D4S424;	
5	inclusive of and localized between D4S431 and D4S404; and	
6	inclusive and localized between D11S394 and D11S29.	

1	14.	The kit of claim 13, wherein the markers are selected from the group	
2	consisting of:		
3		D4S175, D4S422, D4S1576, D4S2294, D4S1579, D4S397, D4S3089,	
4	D4S2965, D4S192,	D4S420, D4S1644, D4S3334;	
5		D4S3007, D4S394, D4S2983, D4S2923, D4S615, AFM_{α} 184za9,	
6	D4S2928, D4S1065	5, D4S1582, D4S107, D4S3009, D4S2906, D4S2949, AFM087zg5,	
7	D4S2944, D4S403,	D4S2942, D4S2984, D4S1602, D4S1511, D4S2311, D4S3048; and	
8		D11S133, D11S147, CD3D, D11S285, D11S29.	
	15.	The method of claim 1, wherein the marker is amplified.	
1	16.	The method of claim 15, wherein the marker is amplified by the	
1 1	polymerase chain re	eaction.	
si 1	17.	The method of claim 1, wherein the presence or absence of an allele	
2	associated with inc	reased resistance to bipolar affective disorder is determined.	
1	18.	The method of claim 1, wherein the genotype of an affected family	
2	member is determine	ned.	
1	19.	The method of claim 1, wherein the genotype of a non-affected family	
2	member is determine	ned.	
1	20.	The method of claim 1, further comprising:	
2		determining the genotype of at least one family member, wherein the	
3	genotype is determ	ined with at least one marker for at least one chromosomal region linked	
4	to a locus associated with susceptibility to bipolar affective disorder, wherein the		
5	chromosomal region	ons are inclusive of and localized between D6S344 and D6S89; inclusive	
6	of and localized be	tween D13S171 and D13S218; or at about D15S148.	

1	21. The method of claim 1, further comprising:
2	determining the genotype of a tested individual from the affected
3	family, wherein the genotype is determined with at least one marker for at least one
4	chromosomal region linked to a locus associated with resistance to bipolar affective disorder,
5	wherein the chromosomal regions are inclusive of and localized between $D4S402$ and
6	D4S424; inclusive of and localized between D4S431 and D4S404; or inclusive and localized
-7	between D11S133 and D11S29;
8	comparing the genotype of the tested individual to the genotype
9	associated with increased or decreased resistance to bipolar affective disorder; and
7 8 9 10	determining therefrom the increased or decreased risk of the tested
1 1	individual developing familial bipolar affective disorder.
11	22. The method of claim 21, wherein the genotype of the tested individual is
2	compared to the genotype of an affected family member.
1	23. A method for determining the contribution of a chromosomal region to
2	the presence or absence of resistance to bipolar affective disorder in a family affected by
3	bipolar affective disorder, comprising:
4	determining the corresponding genotype of at least two family members
5	wherein the genotype is determined with at least one marker for at least one tested
6	chromosomal region linked to a locus associated with resistance to bipolar affective disorder
7	wherein the tested chromosomal regions are inclusive of and localized between $D4S402$ and
8	D4S424; inclusive of and localized between D4S431 and D4S404; or inclusive and localized
9	between D11S133 and D11S29;
10	determining, after the age of onset, the bipolar affective disorder disease
11	status in the family members;
12	comparing the genotypes of the family members; and
13	determining therefrom the contribution of the chromosomal region to
14	the presence or absence of resistance to bipolar affective disorder in the family.

1	24. A method for determining a generape associated with mercused of	
2	decreased resistance to familial bipolar affective disorder in a family affected by bipolar	
3	affective disorder, comprising:	
4	determining the genotype of at least one family member, wherein the	
5	genotype is determined with at least one marker for at least one chromosomal region linked	
6	to a locus associated with resistance to bipolar affective disorder, wherein the chromosomal	
7	regions are inclusive of and localized between D4S402 and D4S424; inclusive of and	
7 8 10 11 12 13	localized between D4S431 and D4S404; or inclusive and localized between D11S133 and	
-9	D11S29;	
10	determining the genotype of at least one family member, wherein the	
11	genotype is determined with at least one marker for at least one chromosomal region linked	
12	to a locus associated with susceptibility to bipolar affective disorder, wherein the	
13	chromosomal regions are inclusive of and localized between $D6S344$ and $D6S89$; inclusive	
14 15	of and localized between D13S171 and D13S218; or at about D15S148;	
15	determining, after the age of onset, the bipolar affective disorder disease	
16	status in the family member;	
17	comparing the genotype with the bipolar affective disorder disease	
18	status; and	
19	determining therefrom the genotype associated with increased or	
20	decreased resistance to bipolar affective disorder.	
1	25. The method of claim 24, wherein the marker associated with	
2	susceptibility is D6S7, D13S1, D15S45, or combinations thereof.	
1	26. The method of claim 24, further comprising:	
2	determining the genotype of a tested individual from the affected	
3	family, wherein the genotype is determined with at least one marker for at least one	
4	chromosomal region linked to a locus associated with resistance to bipolar affective disorder,	
5	wherein the chromosomal regions are inclusive of and localized between D4S402 and	

6	D4S424; inclusive of and localized between D4S431 and D4S404; or inclusive and localized
7	between D11S133 and D11S29;
8	comparing the genotype of the tested individual to the genotype
9	associated with increased or decreased resistance to bipolar affective disorder; and
10	determining therefrom the increased or decreased risk of the tested
11	individual developing familial bipolar affective disorder.
1	27. A kit comprising markers D6S7, D13S1, or D15S45 for performing the
2	method of claim 24.
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